Method for the production of purified 1,3-substituted imidazolium salts

Abstract

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5 Process for preparing purified 1,3-substituted imidazolium salts of the formula (I)

by reacting a 1,3-substituted imidazolium salt of the formula (II),

$$\begin{bmatrix} R2 & R3 \\ R1 & N & R4 \end{bmatrix}^{+} Y_{1/y}^{y_{-}}$$
(II),

with a strong base at from 20 to 250°C while distilling off the 1,3-substituted imidazol-2-ylidene formed, in which the 1,3-substituted imidazol-2-ylidene which has been distilled off is brought into contact in the gaseous state with the protic acid H_aA (III) and/or the 1,3-substituted imidazol-2-ylidene which has been distilled off is passed in the gaseous or condensed state into a receiver comprising the protic acid H_aA (III).